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ABSTRACT

Practical skills tests are provided for fire fighter trainees in the Wisconsin Fire Service Certification Series, Fire Fighter Levels I, II, and III. A course introduction appears first and contains this information: recommended instructional sequence, required facilities, instructional methodology, requirements for certification, course administration, skills testing, required forms, and certification expiration. Three required forms are included. Practical skills tests are then provided for these units in the training course: general (orientation); portable extinguishers; ropes and knots; protective breathing apparatus; ladders; hoses, nozzles, and appliances; water supplies; fire streams; sprinklers; forcible entry; ventilation; rescue; salvage and overhaul; fire department communications; and fire inspection. The equipment and material to be furnished at the test site is listed for each unit. The form for each test within a unit has this format: candidate information (name; social security number; department; vocational, technical and adult education district; and county), level for which the test is intended, behavioral objectives, pass/fail information, examiner/evaluator signature, and additional comments. (YLB)

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WISCONSIN BOARD OF VOCATIONAL, TECHNICAL AND ADULT EDUCATION
4802 Sheboygan Avenue, Madison, Wisconsin 53702
Robert P. Sorensen, Ph.D., State Director

WISCONSIN
FIRE SERVICE CERTIFICATION SERIES
FIRE FIGHTER LEVEL I - II - III

FIRE SERVICE TRAINING

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Final Revision January 1980

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FIRE FIGHTER CERTIFICATION SERIES

The Wisconsin Fire Service Certification Series is being developed as a statewide minimum level of competency-based fire education and training.

The National Professional Qualifications System NFPA 1000 Series and subsequent certification standards, have been adopted by the Wisconsin Board of Vocational, Technical and Adult Education, for curriculum development and the training and education of fire service personnel throughout the VTAE system.

This course consists of 208 hours of education, training and testing. It is made up of seventeen (17) subject areas.

APPLICATION TO EXISTING POSITIONS

It is not the intent of the State Board that these standards shall have the effect of rendering invalid any rank, qualification and appointment acquired prior to the adoption of this standard.

Upon the adoption of any standard, the authority having jurisdiction shall classify its existing ranks, qualifications and appointments to determine equivalency with an appropriate level of the standard.

An incumbent of a position established prior to adoption of a standard shall be considered qualified and eligible for future progression in accordance with the standards. Equivalency certificates will be issued to those personnel so designated by the authority having jurisdiction.

Any fire fighter may challenge the fifteen (15) practical skills test units and the final examination at any one or all three levels. Upon attaining a passing grade, certification at the appropriate level will be granted.

First Aid is not included in the course units as this instruction is already provided in the VTAE system.

A valid card, certification or licensure in any of the following areas providing it includes American Red Cross or American Heart Association CPR certification, will be accepted as meeting the first aid requirements of NFPA 1001.

Advanced First Aid - American red Cross
First Responder Course
Emergency Medical Technician
Paramedic

RECOMMENDED INSTRUCTIONAL SEQUENCE

It is not the intent of the State Board to specify the order in which the units must be taught. If, however, the instruction of this course is to proceed in a logical step-by-step manner, the instructor should arrange the units in a sequence with permits each to be taught at the proper time.

It should be noted, that once started, each unit MUST be completed before starting another.

WISCONSIN FIRE SERVICE CERTIFICATION SERIES - FIRE FIGHTER I-II-III

- | | |
|-----------------------------------|-------------------------------|
| 1. General (Orientation) | 10. Fire Streams |
| 2. Safety | 11. Sprinklers |
| 3. Fire Behavior | 12. Forcible Entry |
| 4. Portable Extinguishers | 13. Ventilation |
| 5. Ropes & Knots | 14. Rescue |
| 6. Protective Breathing Apparatus | 15. Salvage & Overhaul |
| 7. Ladders | 16. Fire Alarm Communications |
| 8. Hose, Nozzles and Appliances | 17. Inspection |
| 9. Water Supplies | |

FACILITIES

The facilities needed to conduct this course vary, as a result, the State Board has established guide lines as to what facilities are needed to conduct this course.

1. A training tower (if available) or other building at least two stories in height, suitable for use as a training structure for ladder evolutions, rescue drills, hose advancement and rope work.
2. A classroom with adequate environmental control and seating for the candidates.
3. Forcible entry and ventilation drill facilities.
- *4. A smoke and fire room or building suitable for containing and equipped for simulating fire atmospheres and conditions.
- *5. Facilities for conducting live fire training in
 - a. structural fires
 - b. flammable liquid fires
 - c. LP and natural gas fires
 - d. automobile fires

*Be sure to secure permission for these activities from the environmental protection section of the Department of Natural Resources.

Using the information as a guideline, it is quite apparent that an abandoned or vacated two or three story house or other building will meet or exceed the requirements of this course.

NOTE: Require that a legal release is secured relieving the district and all participants of any liability for the use, destruction or clean-up of the premises during training or testing.

Training aids required are sometimes dependent upon the instructor's resourcefulness. The instructor, in many cases, can locate and obtain many useful aids or improvise aids to teach this course.

Further information on facilities or training aids is contained in both the instructors notes column of the lesson plan and in the handout or information sheets.

BEHAVIORAL OBJECTIVES

Are contained in each training unit following the Instructor's Guide. These objectives are a guide as to what is expected of the candidate at the end of each unit in the course. They also indicate to the instructor what is to be taught and evaluated.

Each objective begins with a general behavior which indicates the level of learning or general area of skill desired. That is, they state whether the candidate should know (simple recall), understand or perform a body of knowledge or a skill.

Under most of the general objectives are one or more specific statements of behavior which will indicate to the instructor whether or not the candidate has met the objectives to a satisfactory degree.

The instructors should always study these objectives carefully before beginning their instruction.

INSTRUCTIONAL METHODOLOGY

References to the teaching methods to be used are contained in the instructor's guide section of each training unit. For these references to be of value to the instructors, they must be aware of what each method means in terms of how they will present this material.

An abbreviated description of the four major teaching methods used to teach the course is furnished to assist the instructor. More complete information may be found in Fire Service Instructor Training, IFSTA #303.

METHODS OF INSTRUCTING

<u>METHOD</u>	<u>HOW DONE</u>	<u>ADVANTAGES</u>	<u>DISADVANTAGES</u>
I. <u>Demonstration</u>	Show by actually doing the operation with real tools and equipment	1. Learner sees as well as hears. 2. More interesting. 3. Gives candidates the feel of the job. 4. Visual proof it will work. 5. Easy to test. 6. More thorough.	1. May prove expensive if equipment has to be secured. 2. Depends on availability of equipment. 3. Confined to a small group.

METHODS OF INSTRUCTION

<u>METHOD</u>	<u>HOW DONE</u>	<u>ADVANTAGES</u>	<u>DISADVANTAGES</u>
II. <u>Illustration</u>	Show by using pictures, diagrams, graphs, drawings, models, slides or blueprints.	1. Candidates see as they hear. 2. May show more in detail. 3. Can explore larger fields of work. 4. Less expensive. 5. Makes available information that could not be demonstrated.	1. Inability to get the feel of the operation. 2. May be confusing as to real intention. 3. Somewhat dependent on the ability of instructor to secure a good illustration.
III. <u>Lecture</u>	Telling or giving the information by word.	1. Faster. 2. Less expensive. 3. Effective in large groups and can be used to build up sequence of presentation. 4. Not so much equipment needed. 5. May be used with other methods.	1. Effectiveness depends largely on instructors speaking ability. 2. Candidates cannot absorb all the information. 3. Not enough class participation. 4. Apt to prove tiresome and fail to stimulate thinking.
IV. <u>Conference</u>	The instructor serves a leader and with skillful questioning and use of the blackboard, outlines and charts, guides the discussion for an exchange of ideas and a pooling of information and experience.	1. Very Interesting to class. 2. Promotes deeper individual thinking. 3. Maximum group participation. 4. Utilizes experience of all the group. 5. Brings out new ideas and focuses thought toward solution of problem.	1. Slow method. 2. Easy to wander from desired topic. 3. Limited to small experienced group. 4. Depends greatly on skill of instructors and their ability to handle conference.

FACTORS THAT DETERMINE WHAT METHOD TO USE

1. Nature of subject
2. Size of group.
3. Type of persons
making up group
4. The experience of those
persons in the group
5. The weather conditions

REQUIREMENTS FOR CERTIFICATION

Fire Service Instructor I-II-III-IV

Certification as a Fire Service Instructor requires that the candidate successfully complete the courses of instruction conducted by the VTAE districts or the National Fire Academy, for the level requested and be certified by the Wisconsin Board of Vocational, Technical and Adult Education.

Equivalency Certificates will not be issued to Fire Service Instructors. 2-year Provisional Certificates will be issued to those Instructor Candidates who have made application to become a fire service instructor and have fulfilled the entrance requirements in Chapter 2 of NFPA 1041 but have not met the objectives for Instructor I.

FIRE FIGHTER I-II-III

Completion of the NFPA Standard 1001 Course with a passing grade of 70 on all unit quizzes and final examination and the successful completion of the practical skills tests for the level of certification requested, conducted and certified to by the local VTAE district, under the supervision of the State Board.

or

Challenge Examination

Satisfactory performance of the practical skills tests and the attainment of a passing grade of 70 on the written examination for the level of certification requested, conducted and certified to by the local VTAE district, under the supervision of the State Board.

Equivalency Certification

Is used to rank all present members of a department by determining their level of competency as certified to by the Fire Chief or the Authority Having Jurisdiction that is equivalent to the NFPA 1001 Standards for the level of certification requested.

COURSE ADMINISTRATION

The instruction of all candidates for certification shall be accomplished by State Board certified fire education and training personnel.

Instructor/examiners for these courses must be NFPA Standard 1041 Certified Fire Service Instructors, Level I or above.

While this instruction is normally provided through the fire services programs of the local VTAE districts, it can be conducted by the training officers of the larger fire departments who have completed the NFPA Standard 1041 Fire Service Instructors Courses and are certified. Requests for the necessary forms and materials should be submitted to the State Board.

ALL FINAL EXAMINATIONS FOR CERTIFICATION WILL BE SUPERVISED BY THE STATE BOARD.

SKILLS TESTING

The skills examination should be done as swiftly and fairly as possible because the testing consumes a great deal of time. It is suggested that when conducting these tests that the instructor test a sampling of the skills acquired, rather than concentrate in one or two areas.

When candidates are tested on certain subjects containing many smaller divisions, such as testing hose rolls, it is suggested that the types of hose rolls desired be written on cards and have the candidates draw one or two rolls each.

During the Practical Skills Testing activities, be sure that you have enough examiner/evaluators to cope with the size of the group.

To reduce confusion and to prevent misunderstandings in the use of the words "identify", "demonstrate" with due regard for "safety" or "safely" as they apply to the testing of candidates for certification, we are providing the following definitions:

IDENTIFY - to physically select, indicate or explain verbally or in writing, using standard terms recognized by the fire service.

DEMONSTRATE - to show by actual use, illustration, simulation, or explanation.

SAFETY/SAFELY - to perform the objective without injury to self or to others.

FORMS AND REPORTS

Several forms have been provided for use by district staff and others in completing the reports required for certification.

VEFT-1 (GREEN) to be used by the VTAE districts in submitting certification requests for persons who have successfully completed courses of instruction. The form must be completed and submitted along with Form VEFT-2 to the State Board.

VEFT-2 (BLUE) to be completed by all certified instructors and submitted with either Form VEFT-1 by the district or Form VEFT-4 by the individual fire department to the State Board.

VEFT-3 (YELLOW) to be furnished by the ~~VIRE~~ districts to all fire chiefs requesting equivalency certification for their personnel. Must be signed by the fire chief or local government authority and be submitted to the State Board.

VEFT-4 (PINK) to be used by the local fire department authorized to conduct the program by the State Board. It must be signed by the certified instructor, fire chief and district supervisor/coordinator and submitted with form VEFT-2 to the State Board.

A copy of all required forms must be completed for every candidate for certification. Use ONLY those forms provided for this purpose by the State Board.

Certificate Expiration:

Standard Certificates expire five (5) years from date of issue and re-certification will be required.

Provisional Fire Service Instructor Certificates expire two (2) years from date of issue and may be renewed once for a two (2) year period upon request to the State Board.

Equivalency Certificates expire five (5) years from date of issue and are non-renewable. Those holding this type of certificate and desiring re-certification must complete the requirements for a standard certificate.

Candidates may, at any time, upgrade their certificates by completing and meeting the next highest level of certification standards.

Anyone desiring adjustment of their level of certification, may apply for a review of their qualifications by the Sub-Committee on Certification.

Please direct any communications relative to the Wisconsin Fire Service Certification Series Program to:

Paul F. Pribyl, Consultant
Fire Service Training
Rm 701
4802 Sheboygan Avenue
Madison, Wisconsin
Ph: 608/266/7994

Name of Trainee					Soc. Sec. No.	Date Enrolled
Department					VTAE District	County
Certified Fire Fighter	I		II		III	Place check mark (✓) in appropriate box to indicate level of competency
Subject					Date Completed	Grade
1. General (Orientation)						
2. Safety						
3. Fire Behavior						
4. Portable Extinguishers						
5. Ropes & Knots						
6. Breathing Apparatus						
7. Ladders						
8. Hose, Nozzles & Appliances						
9. Water Supplies						
10. Fire Streams						
11. Sprinklers						
12. Forcible Entry						
13. Ventilation						
14. Rescue						
15. Salvage & Overhaul						
16. Fire Alarm Communications						
17. Inspection						
18 First Aid*						

*Current ARC Advanced First Aid and ARC or AHA CPR Card and/or licensure as an EMT (Basic) or Paramedic will be accepted in lieu of First Aid Requirement. If trainee cannot qualify on this basis, appropriate training must be certified to by VTAE District First Aid Instructor whose signature must appear at item 18 for certification.

I hereby certify that the trainee named hereon, has successfully passed both the written and performance tests for the level of certification checked, and that the instructor(s) signing above have observed and approved his/her performance.

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FIRE SERVICE TRAINING SUPERVISOR/COORDINATOR VTAE DISTRICT DATE

NAME					SOC. SEC. NO.	DATE OF APPOINTMENT
DEPARTMENT					VTAE DISTRICT	COUNTY
CERTIFIED FIRE FIGHTER	I	II	III		Place check mark () in appropriate box to indicate level of competency for which equivalency certification is being requested.	

1. General (Orientation)
2. Safety
3. Fire Behavior
4. Portable Extinguishers
5. Ropes & Knots
6. Breathing Apparatus
7. Ladders
8. Hose, Nozzles & Appliances
9. Water Supplies
10. Fire Streams
11. Sprinklers
12. Forcible Entry
13. Ventilation
14. Rescue
15. Salvage & Overhaul
16. Fire Alarm Communications
17. Inspections

18. First Aid*

*Current ARC Advanced First Aid with ARC or AHA CPR card, First Responder Course and/or licensure as an EMT (Basic) or Paramedic will be accepted in lieu of First Aid Requirement. If candidate cannot qualify on this basis, appropriate training must be certified to by VTAE District First Aid or EMS instructor whose signature must appear at Item 18 for certification.

I hereby certify that the firefighter named hereon has the required knowledge of the subjects listed and meets the equivalents in competency of NFPA Standard 1001 for the level of Fire Fighter Certification requested.

Signature of Authorizing Official

Title

Date

FORM VEFT-3

NAME					SOC. SEC. NO.	DATE ENROLLED
DEPARTMENT					VTAE DISTRICT	COUNTY
CERTIFIED FIRE FIGHTER	I	II	III	Place a check mark (✓) in appropriate box to indicate level of competency		
SUBJECT					DATE COMPLETED	GRADE
1. General (Orientation)						
2. Safety						
3. Fire Behavior						
4. Portable Extinguishers						
5. Ropes & Knots						
6. Breathing Apparatus						
7. Ladders						
(Hose, Nozzles & Appliances						
9. Water Supplies						
10. Fire Streams						
11. Sprinklers						
12. Forcible Entry						
13. Ventilation						
14. Rescue						
15. Salvage & Overhaul						
16. Fire Alarm Communications						
17. Inspection						
18. First Aid*						
*Current Arc Advanced First Aid with ARC or AHA CPR Card, First Responder Course and/or licensure as an EMT (Basic or Paramedic will be accepted in lieu of First Aid Requirement. If candidate cannot qualify on this basis, appropriate training must be certified to by VTAE District First Aid or EMS Instructor whose signature must appear at item 18 for Certification.						

WISCONSIN BOARD OF VOCATIONAL, TECHNICAL AND ADULT EDUCATION
4802 Sheboygan Avenue, Madison, Wisconsin 53702
Robert P. Sorensen, Ph.D., State Director

WISCONSIN
FIRE SERVICE CERTIFICATION SERIES
FIRE FIGHTER LEVEL I - II - III
PRACTICAL SKILLS TESTS

Prepared by

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Vocational Education Consultant
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BUREAU OF PROGRAM DEVELOPMENT

George R. Kinsler
Bureau Director

Arnold H. Potthast
Chief Supervisor
Vocational Education

January 1980

PRACTICAL SKILLS EXAMINATIONS

INSTRUCTIONS TO EXAMINER/EVALUATORS

The following is to be read to all candidates for certification by the examiner/evaluator before they are examined in these practical skills.

"The purpose of performing and examining in these skills is to insure that all candidates are in possession of sufficient knowledge and skills to perform the described evolutions safely and efficiently and in accordance with established procedures.

Time considerations are to be considered secondary to the candidates ability to perform each task safely and efficiently.

The time provided for each evolution is considered to be the optimum time.

In evaluating a candidates performance, that candidate who fails to accomplish the task within the optimum time, but who accomplishes the task safely and efficiently with a demonstrated knowledge of established procedures, will receive a higher rating than the candidate who satisfies the optimum time, but who fails to accomplish the task safely and efficiently."

Form VEPT-2 Practical Skills Test Report will be forwarded to:

Paul F. Pribyl, Consultant
Fire Service Training
Rm 701 4802 Sheboygan Avenue
Madison, WI 53702

Upon completion of all certification skills testing.

UNIT 1 - GENERAL (ORIENTATION)

The following equipment and/or material to be furnished at the test site:

1. Residential electric meter.
2. Residential gas meter and/or "stop box".
3. Necessary tools and equipment including FULL PROTECTIVE CLOTHING.
4. Simulation or description of fire incident.

Name of Candidate	Soc. Sec. No.	1 of 1
Department	VTAE District	County
Practical Skills Test Unit 1 General (Orientation)	Certified Fire Fighter Level II	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 1 of the FSCS course, and with due regard to safety, the candidate shall demonstrate the ability to:

- *1. The fire fighter shall demonstrate shutting off the gas services to a building.
- *2. The fire fighter shall demonstrate shutting off electrical services to a building.

*No time limit, pass or fail grade should depend on candidates knowledge of the subject being tested and the methods and procedures demonstrated to the evaluator.

PASS	FAIL
------	------

Signature of Examiner/Evaluator _____

Date _____

Comments: _____

Name of Candidate	Soc. Sec. No.	1 of 1
Department	VTAE District	County
Practical Skills Test Unit 1 General (Orientation)	Certified Fire Fighter Level III	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 1 of the FSCS course, and with due regard to safety, the candidate shall demonstrate the ability to:

*1 Assume command of a fire ground operation in the absence of a fire officer.

*No time limit, pass or fail grade should depend on candidates knowledge of the subject being tested and the methods and procedures demonstrated to the examiner/evaluator.

In accordance with IFSTA Manual #301

PASS	FAIL
------	------

Signature of Examiner/Evaluator

Date

Comments:

UNIT 4 - PORTABLE EXTINGUISHERS

The following equipment and/or material to be furnished at the test site:

1. A variety of portable extinguishers that include at least one (1) extinguisher of the type and size required to extinguish the test fire(s).
2. A test fire of the following type and dimension:
 - a. Deepseated Class "A" fire atleast 3-feet by 3-feet square, and at least 2-inches deep lying flat.
 - b. A flammable liquid fire using a container at least 3-feet long, 1-foot wide and 3-inches deep, with a minimum of 1-inch of water and 1-gallon of flammable liquid.
3. Necessary additional personnel and equipment AND FULL PROTECTIVE CLOTHING.

Note: Extinguishers to be placed 30-feet from the test fires and where the candidate will shall begin the test.

Wind condition where prevailing winds do not exceed 10 mph (and adversely effect free burning.)

Name of Candidate	Soc. Sec No.	1 of 1
Department	VTAE District	County
Practical Skills Test Unit 4 Portable Extinguishers	Certified Fire Fighter Level II	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 4 of the FSCS course, and with due regard to safety, the candidate shall demonstrate the ability to accomplish 1 and 2 or 1 and 3.

Within 45 seconds, in accordance with IFSTA Manual #103

1. Select the correct extinguisher, size and type for the test fire(s) in progress.
2. Extinguish the Class "A: fire
3. Extinguish the Class "B" fire

Objective 1 and 2

Objectives 1 and 3

Pass	Fail		Pass	Fail
------	------	--	------	------

Signature of Examiner/Evaluator

Date

Comments:

(OVER)

UNIT 5 - ROPES & KNOTS

The following equipment and/or material to be furnished at the test site.

1. A minimum of a 12-foot length of 3/4-inch or 5/8-inch manila rope or equivalent.
2. A 125-foot or longer, length of 3/4-inch or 5/8-inch manila rope, or the equivalent, and an assortment of miscellaneous tools and equipment.
3. A 125-foot, or longer, length of 3/4-inch or 1-inch rope or the equivalent.
4. A 3-story structure or equivalent.
5. A pompier or rescu belt.
6. Additional necessary personnel and equipment.

Name of Candidate	Soc. Sec. No.	1 of 1
Department	VTAE District	County
Practical Skills Test Unit 5 Ropes & Knots	Certified Fire Fighter Level I	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 5 of the FSCS course, and with due regard to safety, the candidate shall demonstrate the ability to:

Within 30 seconds, and in accordance with IFSTA Manuals #101, 201 and 108, tie each of the following knots:

1. bowline
2. running bowline
3. chimney hitch
4. clove hitch
5. becket bend
6. square knot
7. sheep shank
8. timber hitch

Within 60 seconds, and in accordance with IFSTA Manuals #101, 201 and 108, tie the bowline-on-a-bight as a rescue knot on a simulated victim as shown in IFSTA Manual #108.

Within 60 seconds, and in accordance with IFSTA Manuals #101, 201 and 108, tie the prescribed knots and hoist any one of the following tools or equipment to a height of 20 feet.

1. axe
2. pike pole
3. fire extinguisher (size to approximate a 15 lb. CO-2 extinguisher)
4. ladder (size to approximate a 12-14 foot straight ladder)

*The firefighter, when given the name, picture or actual knot used by the fire service, shall identify it, and describe the purpose for which it would be used.

*The firefighter shall demonstrate the methods of inspecting, cleaning and maintaining rope.

*No time limit on these items.

Signature of Examiner/Evaluator

Date

PASS	FAIL
------	------

Comments: _____

(OVER)

Name of Candidate	Soc. Sec. No.	1 of 1
Department	VTAE District	County
Practical Skills Test Unit 5 Ropes & Knots	Certified Fire Fighter Level II	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 5 of the FSCS course, and with due regard to safety, the candidate shall demonstrate the ability to:

*The fire fighter, when given a simulated fire fighting or rescue task, shall select the appropriate size, strength, and length of rope for the task in accordance with IFSTA Manuals #101, 201 and 108.

*The fire fighter shall select and tie a rope between two objects at least 15 feet apart, using an approved hitch or knot, that will support the weight of the fire fighter in accordance with IFSTA Manuals #101, 201 and 108.

*The fire fighter shall demonstrate the use of rope, using approved knots and hitches, to tie ladders, hose and other equipment, so as to secure them to immovable objects in accordance with IFSTA Manuals #101, 201 and 108.

*No time limit, pass or fail grade should depend on candidates knowledge of the subject being tested and the methods and procedures to be demonstrated to the Examiner/Evaluator.

UNIT 6 - PROTECTIVE BREATHING APPARATUS

The following equipment and/or material to be furnished at the test site.

1. A complete open-circuit demand breathing apparatus using compressed air.
- *2. A complete open-circuit pressure-demand using compressed air.
- *3. Closed-circuit breathing apparatus using compressed or liquid oxygen.
- *4. Closed-circuit breathing apparatus that chemically generates oxygen.
5. A simulated fire ground or smoke-room condition.
6. Additional personnel and equipment AND FULL PROTECTIVE CLOTHING.

*Note, items 3 & 4 are needed only when this type of breathing apparatus is in use in the area where the test center is located.

Name of Candidate	Soc. Sec. No.	1 of 1
Department	VTAE District	County
Practical Skills Test Unit 6 Protective Breathing Apparatus	Certified Fire Fighter Level I	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 6 of the FSCS course, and with due regard to safety, the candidate shall demonstrate the ability to:

1. Within 40 seconds, don air/oxygen type breathing apparatus while wearing full protective clothing.
 2. Wear the air/oxygen breathing apparatus in a smoke-filled or similar environment for five (5) minutes.
 3. Within 40 seconds, change air cylinder or tank of air/oxygen breathing apparatus in simulated emergency conditions, using two (2) persons.
 - *4. Clean the exterior of the regulator and sanitize the air/oxygen breathing apparatus. According to manufacturers recommendations.
 - *5. Identify at least four (4) hazardous respiratory environments encountered in fire fighting.
 - *6. Demonstrate that the protective breathing apparatus is in a safe condition for immediate use.
- *No time limit on these items.

And in accordance with IFSTA Manual § 108

PASS	FAIL
------	------

Signature of Examiner/Evaluator

Date

Comments:

(OVER)

Name of Candidate	Soc. Sec. No.	1 of 1
Department	VTAE District	County
Practical Skills Test Unit 6 Protective Breathing Apparatus	Certified Fire Fighter Level II	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 6 of the FSCS course, and with due regard to safety, the candidate shall demonstrate the ability to:

- *1. Demonstrate the correct procedure for daily inspection and maintenance of breathing apparatus.
- *2. Identify the correct procedure for recharging cylinders.
- *3. Demonstrate the correct use of emergency procedures using breathing apparatus to assist other firefighters conservation of air and restrictive use of by-pass valves.

In accordance with IFSTA Manual #108.

*No time limit on these items.

PASS	FAIL
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Signature of Examiner/Evaluator

Date

Comments:

(OVER)

Name of Candidate	Soc. Sec. No.	1 of 1
Department	VTAE District	County
Practical Skills Test Unit 6 Protective Breathing Apparatus	Certified Fire Fighter Level III	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 6 of the FSCS course, and with due regard to safety, the candidate shall demonstrate the ability to:

*1 Demonstrate the operational functions of all types of protective breathing apparatus used by the authority having jurisdiction.

*2. Demonstrate the principles of operation of the following types of protective breathing apparatus approved for fire fighting use:

- (a) Open-circuit demand using compressed air
- (b) Open-circuit pressure-demand using compressed air
- (c) Closed-circuit using compressed or liquid oxygen
- (d) Closed-circuit that chemically generates oxygen

*No time limit, pass or fail grade should depend on candidates knowledge of the subject being tested and the methods and procedures demonstrated to the Examiner/Evaluator.

In accordance with IFSTA Manual #205

PASS	FAIL
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Signature of Examiner/Evaluator

Date

Comments: _____

UNIT 7 - LADDERS

The following equipment and/or material to be furnished at the test site.

1. A selection of metal, fiberglass or wood fire department ladders which may include:
 - a. straight ladders
 - b. extension ladders
2. Necessary additional personnel, tools, equipment AND FULL PROTECTIVE CLOTHING.
3. A 3-story structure or equivalent.
4. An aerial ladder and/or elevating platform conforming to NFPA #1901 Also includes aerial towers, scopes or other apparatus meeting the standard indicated.
5. Adequate space and/or area to perform the necessary operations.

Name of Candidate	Soc. Sec. No.	1 of 3
Department	VTAE District	County
Practical Skills Test Unit 7 Ladders	Certified Fire Fighter Level I	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 7 of the FSCS course, and with due regard to safety, the candidate shall demonstrate the ability to:

1. With the ladders laying at the position at which they are to be raised, raise and place the following ladders, or equivalent, from a grounded position, using the flat or beam raises within the times given and in accordance with IFSTA Manual #102.

<u>Straight Ladders</u>	<u>Time</u>	<u>Extension Ladders</u> (All fully extended)	<u>Time</u>
18-foot	20 sec	24-foot	50 sec
24-foot	20 sec	28-foot	1-minute
35-Foot	35 sec	35-foot	1-min-30 sec
		40-foot	1-min-35 sec
		50-foot	2-min

2. Climb a ladder to the 3rd floor or equivalent, secure a leg lock, release, and descend to the ground in within 1 minute and 30 seconds, in accordance with IFSTA Manual #102.
3. Climb a ladder to the 3rd floor and/or roof; dismount, then remount ladder and return to the ground within 1 minute and 30 seconds in accordance with IFSTA Manual #102.
4. Remove a ladder from the apparatus and carry a distance of 25 feet using any of the following ladders within the time limits given and using one or more of the following carries, arms length, shoulder or hip in accordance with IFSTA Manual #102.

<u>Ladder</u>	<u>Time</u>
20-foot, roof	35 sec
28-foot extension	40 sec
35-foot extension	45 sec
40-foot extension	50 sec
50-foot extension	60 sec

PASS	FAIL
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Signature of Examiner/Evaluator

Date

Comments

(OVER)

Name of Candidate	Soc. Sec. No.	2 of 3
Department	VTAE District	County
Practical Skills Test Unit 7 Ladders	Certified Fire Fighter Level I	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 7 of the FSCS course, and with due regard to safety, the candidate shall demonstrate the ability to:

5. Climb a ladder to the 3rd floor or equivalent, carrying any of the following tools or equipment and descend to the ground within 1 minute in accordance with IFSTA Manual #102.
 - a. pickhead axe
 - b. pike pole
 - c. hose roller
 - d. hand lantern
 - e. rope coil
6. From a grounded position, 25 feet from the objective, carry the ladder to the objective and demonstrate raising the ladder in a manner that will compensate for an overhead obstacle or obstruction which prohibits a beam or flat ladder raise with two (2) persons within 1 minute and 30 seconds and in accordance with IFSTA #102.
7. From a grounded position, with guy ropes attached, raise the ladder to a vertical position and extend ladder to its full length (height) within 2 minutes-30 seconds in accordance with IFSTA Manual #102.

PASS	FAIL
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Signature of Examiner/Evaluator _____

Date _____

Comments _____

(OVER)

Name of Candidate	Soc. Sec. No.	3 of 3
Department	VTAE District	County
Practical Skills Test Unit 7 Ladders	Certified Fire Fighter Level I	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 7 of the FSCS corse, and with due regard to safety, the candidate shall demonstrate the ability to:

8. Drive the apparatus a minimum of 200 feet, position in the required area, engage all stabilizing and operating devices in preparation for raising the unit within five (5) minutes and in accordance with IFTSA Manual #106 and the Procedures of the authority having jurisdiction.
9. Raise the aerial ladder to 70 degrees elevation and extend 50-feet, using the operating devices; then rotate one (1) revolution and lower to the road position within six (6) minutes in accordance with IFSTA Manual #106 and the procedures of the authority having jurisdiction.
10. Raise the elevated platform, using ground controls to 80% extension; rotate one (1) revolution and lower to the road position within six (6) minutes in accordance with IFSTA Manual #106 and the procedures of the authority having jurisdiction.
11. Climb the aerial ladder to a height of 50 feet, with an angle of 60 degrees, to a pre-connected ladder pipe nozzle, tie in using a safety belt and maneuver nozzle within 3 minutes and 30 seconds in accordance with IFSTA Manual #106 and the procedures of the authority having jurisdiction.

NOTE: Time does not include returning to ground.

PASS	FAIL
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Signature of Examiner/Evaluator _____

Date _____

Comments: _____

(OVER)

Name of Candidate	Soc. Sec. No.	1 of 1
Department	VTAE District	County
Practical Skills Test Unit 7 Ladders	Certified Fire Fighter Level II	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 7 of the FSCS course, and with due regard to safety, the candidate shall demonstrate the ability to:

- *1. Identify the inspection, care and maintenance procedures for ground and aerial ladders in accordance with IPTSA Manual #102 and the procedures of the authority having jurisdiction.

PASS	FAIL
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Signature of Examiner/Evaluator

Date

Comments:

(OVER)

Name of Candidate	Soc. Sec. No.	1 of 1
Department	VTAE District	County
Practical Skills Test Unit 7 Ladders	Certified Fire Fighter Level III	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 7 of the FSCS course, and with due regard for safety, the candidate shall demonstrate the ability to:

1. Identify a nationally accepted annual service test for ground ladders.

PASS	FAIL
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Signature of Examiner/Evaluator _____

Date _____

Comments: _____

(OVER)

UNIT 8 - HOSE, NOZZLES AND APPLIANCES

The following equipment and/or material to be furnished at the test site.

1. Fire department pumper conforming to NFPA #1901
2. Necessary additional personnel
3. Equipment which should include:
 - a. hose lines of various lengths and sizes
 - b. any hose tools required
 - c. any hose appliances required
 - d. a 3-story structure or equivalent

Name of Candidate	Soc. Sec. No.	1 of 4
Department	VTAE District	County
Practical Skills Test Unit 8 Hose, Nozzles and Appliances	Certified Fire Fighter Level I	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 8 of the FSCS course, and with due regard to safety, the candidate shall demonstrate the ability to:

1. Advance two (2) sizes of dry and charged hose lines with attached nozzles (1½ inch or larger), with tailboard of apparatus located 50-feet from the structure and a ladder placed at the 3rd floor window or equivalent:

a. 50-feet of hose into structure		<u>DRY-TIME</u>	<u>CHARGED TIME</u>
	Small line	1-min	1-min-30 sec
	Large Line	1-min-30 sec	2-min
b. Up a ladder to the 3rd floor window			
	Small Line	1-min	1-min-30sec
	Large Line	1-min-30sec	2-min
c. Up an inside stairway to the 2nd floor landing			
	Small Line	1-min-30 sec	2-min
	Large Line	2-min	2-min-30 Sec
d. Up an outside stairway to the 2nd floor landing			
	Small Line	1-min-30 sec	2-min
	Large Line	2-min	2-min-30 sec
e. Down an inside stairway to the 1st basement landing			
	Small Line	1-min-30 Sec	2-min
	Large line	2-min	2-min-30 sec

In accordance with IFSTA Manual #103 and the procedures of the authority having jurisdiction.

PASS	FAIL
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Signature of Examiner/Evaluator _____

Date _____

Comments: _____

(OVER)

Name of Candidate	Soc. Sec. No.	2 of 4
Department	VTAE District	County
Practical Skills Test Unit 8 Hose, Nozzles and Appliances	Certified Fire Fighter Level I	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 8 of the FSCS course, and with due regard to safety, the candidate shall demonstrate the ability to:

2. Connect one (1) length of 2½ inch hose, with nozzle attached, charging and shutting down the line, by properly opening and closing the hydrant within 3 minutes.
3. Connect the following hose to fire hydrant with the apparatus in position:

a. Soft suction sleeve	within	30-seconds
b. Hard suction sleeve	within	1-minute
c. 2, 50-foot lengths of fire hose	within	2-minutes
4. Using 1½ inch hose, demonstrate making the following hose rolls
 - a. Donut hose roll within 1-minute
 - b. Double donut hose roll within 1-minute
 - c. Self-locking hose roll within 1-minute
5. Using 6-lengths of 2½ inch fire hose, uncoupled:
 - a. Make a horseshoe load within 3-minutes
 - b. Make a reverse horseshoe load within 3-minutes
 - c. Make an accordion load within 3-minutes and 30 seconds
 - d. Make a divided hose bed load within 3-minutes
 - e. Make a skid-load hose bed finish within 4-minutes
 - f. Make a donut hose load finish within 4-minutes

In accordance with IFSTA Manual #103 and the procedures of the authority having jurisdiction.

PASS	FAIL
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Signature of Examiner/Evaluator _____

Date _____

Comments: _____

(OVER)

Name of Candidate	Soc. Sec. No.	3 of 4
Department	VTAE District	County
Practical Skills Test Unit 8 Hose, Nozzles and Appliances	Certified Fire Fighter Level I	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 8 of the FSCS course, and with due regard to safety, the candidate shall demonstrate the ability to:

6. With the tailboard of the apparatus located 50-feet from the building, advance a 2½ inch hose line to the bulidng entrance within 1-minute using either of the following hose carries:
 - a. shoulder-fold carry
 - b. underarm carry
7. Attach the following hose appliances and nozzles to fire hose, within the time specified:

a. Hand line adjustable or straight stream nozzle 1½ inch	30-sec
b. Hand line adjustable or straight stream nozzle 2½ inch	30-sec
c. Distributor nozzle	40-sec
d. The "Wye"	30-sec
e. The siamese	35-sec
f. The Water Thief	50-sec
g. Double male connection	40-sec
h. The reducer	30 sec
i. Hose jacket	30-sec
8. Demonstrate the coupling of two (2) lengths of fire using the:
 - a. 1-person method within 15-seconds
 - b. 2-person method within 15-seconds
9. Demonstrate uncoupling two (2) lengths of hose using the:
 - a. Knee-press method within 15-seconds

In accordance with IFSTA Manual #103 and the procedures of the authority having jurisdiction.

PASS	FAIL
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Signature of Examiner/Evaluator

Date

(OVER)

Name of Candidate	Soc. Sec. No.	4 of 4
Department	VTAE District	County
Practical Skills Test Unit 8 Hose, Nozzles and Appliances	Certified Fire Fighter Level I	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 8 of the FSCS course, and with due regard to safety, the candidate shall demonstrate the ability to:

10. With the tailboard of the apparatus located 50-feet from the building, advance two (2) 2½ inch hose lines to an outside standpipe connection and connect the hose within 3-minutes.
11. From the ground floor, carry 50-feet of 2½ inch, or equivalent, fire hose from the doorway, using the shoulder carry, to the second floor inside standpipe, and connect (if applicable) within 3-minutes.
12. Using three (3) lengths of charged 2½ inch hose, place the hose clamp on the length nearest the water supply and replace the center section of hose (simulated burst hose section) and remove the clamp within 3-minutes.
13. Place a hose jacket on the couplings of two (2) lengths of hose that have been damaged (simulated) or has mismatched couplings within 30-seconds.
14. Connect two (2) lengths of 2½ inch or larger hose into a siamese appliance and one (1) length from the siamese appliance within 3-minutes.
15. Hoist 100-feet of 2½ inch hose into a 3rd floor window or equivalent using the following tools:
 - a. Secured hose roller
 - b. 200-feet of 2½ inch hose
 - c. 150-feet of 5/8 inch manila rope or equivalent

within 3-minutes

In accordance with IFSTA Manual #103 and the procedures of the authority having jurisdiction.

PASS	FAIL
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Signature of Examiner/Evaluator

Date

Comments: _____

(OVER)

Name of Candidate	Soc. Sec. No.	1 of 1
Department	VTAE District	County
Practical Skills Test Unit 8 Hose, Nozzles and Appliances	Certified Fire Fighter Level II	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 8 of the FSCS course, and with due regard to safety, the candidate shall demonstrate the ability to:

1. Identify, select and demonstrate the use of any of the nozzles carried on the apparatus including but not limited to the following types of nozzles within 5-minutes.
 - a. 1½ inch adjustable or straight stream nozzle
 - b. 2½ inch adjustable or straight stream nozzle
 - c. Bresnan distributor nozzle
 - d. Cellar pipe
 - e. Aspirating nozzle
 - f. NAP nozzle with applicator
 - g. Bayonet nozzle
- *2. Identify the proper methods for the inspection, maintenance and/or replacement and repair of fire hose, nozzles and couplings.

In accordance with IFSTA Manual #103 and the manufacturers recommendations.

PASS	FAIL
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Signature of Examiner/Evaluator

Date

Comments:

(OVER)

Name of Candidate	Soc. Sec. No.	1 of 1
Department	VTAE District	County
Practical Skills Test Unit 8 Hose, Nozzles and Appliances	Certified Fire Fighter Level III	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 8 of the FSCS course, and with due regard to safety, the candidate shall demonstrate the ability to:

- *1. Demonstrate annual service test of fire hose in accordance with IFSTA Manual #103 pp. 24-25.

*Time is not a factor, sequential steps should decide pass-fail rates.

PASS	FAIL
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Signature of Examiner/Evaluator

Date

Comments: _____

(OVER)

UNIT 9 - WATER SUPPLIES

The following equipment and/or material to be furnished at the test site.

1. A pressurized water system and fire hydrant
2. A pitot Tube and Bourdon Gauge (s)
3. Hydrant wrench and necessary additional equipment
4. Necessary additional personnel.
5. Necessary tables and charts

Name of Candidate	Soc. Sec. No.	1 of 1
Department	VTAE District	County
Practical Skills Test Unit 9 Water Supplies	Certified Fire Fighter Level II	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 9 of the FSCS course, and with due regard to safety, the candidate shall demonstrate the ability to:

*1. Determine hydrant usability by inspecting for:

- a. Obstructions to use of hydrant
- b. Direction of hydrant outlets to suitability of use
- c. Mechanical above-ground damage
- d. Condition of paint, rust or corrosion
- e. The full flow by fully opening and closing the hydrant
- f. Ability to drain

In accordance with IPSTA Manual #205 and the procedures of the authority having jurisdiction.

PASS	FAIL
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Signature of Examiner/Evaluator

Date

Comments:

(OVER)

Name of Candidate	Soc. Sec. No.	2 of 2
Department	VTAE District	County
Practical Skills Test Unit 9 Water Supplies	Certified Fire Fighter Level III	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 9 of the FSCS course, and with due regard to safety, the candidate shall demonstrate the ability to:

- *1. Identify and explain the four fundamental components of a modern water distribution system.
 - *2. Identify the pipe sizes used in water distribution systems for residential, business and industrial districts.
 - *3. Identify at least two causes of increased resistance or friction loss with water flowing in water mains.
- *No time limit, pass or fail grade should depend on candidates knowledge of the subject being tested and the methods and procedures demonstrated to the Examiner/Evaluator.

In accordance with IPSTA Manual #205

PASS	FAIL
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Signature of Examiner/Evaluator

Date;

Comments:

(OVER)

Name of Candidate	Soc. Sec. No.	1 of 2
Department	VTAE District	County
Practical Skills Test Unit 9 Water Supplies	Certified Fire Fighter Level III	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 9 of the FSCS course, and with due regard to safety, the candidate shall demonstrate the ability to:

1. Secure a bourdon gauge to a hydrant, turn on the hydrant and read and record with 100% accuracy, the static pressure of the hydrant using the bourdon gauge within 2-minutes.
2. Remove the hydrant cap, turn on the hydrant and read and record with 100% accuracy, the flow pressure of a hydrant using the Pitot Gauge withing 15-seconds.
3. Bleed the air chamber of the Pitot Gauge using the petcock within 15-seconds.
4. Re-check and record the flow pressures with 100% accuracy, of the hydrant using a Pitot Gauge within 2-minutes.
5. Based on the Pitot Gauge readings, compute and record the G.P.M. of the hydrant outlet using:

a. GPM formula for nozzles	Within	2-minutes
b. GPM formulas for open butts	within	2-minutes
c. Recommended flow charts	within	30-seconds

In accordance with IFSTA Manual #205.

PASS	FAIL
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Signature of Examiner/Evaluator _____

Date _____

Comments: _____

(OVER)

UNIT 10 - FIRE STREAMS

The following equipment and/or material to be furnished at the test site.

- 1. Fire department pumper conforming to NFPA #1901**
- 2. Various length and sizes of fire hose**
- 3. Any hose adaptors needed**
- 4. Any hose appliances needed**
- 5. Any types of nozzles needed**
- 6. Additional personnel necessary AND FULL PROTECTIVE CLOTHING**

Name of Candidate	Soc. Sec. No.	1 of 1
Department	VTAE District	County
Practical Skills Test Unit 10 Fire Streams	Certified Fire Fighter Level I	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 10 of the PSCS course, and with due regard to safety, the candidate shall demonstrate the ability to:

1. Given a specific fire situation, select the applicable stream and extinguish the fire by utilizing the in-direct method of fire stream application within 5-minutes in accordance with IFSTA Manual # 105.
2. Given a specific fire situation, select the applicable stream and extinguish the fire by utilizing the direct method of fire stream application within 5-minutes in accordance with IFSTA Manual #105.
3. Demonstrate the proper method of opening and closing a nozzle under pressure within 1-minute in accordance with IFSTA Manual #105.

PASS	FAIL
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Signature of Examiner/Evaluator _____

Date _____

Comments: _____

(OVER)

Name of Candidate	Soc. Sec. No.	1 of 1
Department	VTAE District	County
Practical Skills Test Unit 10 Fire Streams	Certified Fire Fighter Level II	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 10 of the FSCS course, and with due regard to safety, the candidate shall demonstrate the ability to:

- *1. Given a series of fire situations:
 - a. identify the phase of burning
 - b. select the proper nozzle and hose size
- *2. Identify in writing the characteristics of three (3) types of hose streams.
- *3. Given five (5) fire ground situations select and identify the proper adaptors or appliances.
- *4. Identify in writing several precautions to be followed when advancing hose lines to a fire.
- *5. Identify in writing, three (3) conditions that result in pressure losses in a hose line.
- *6. Identify four (4) special stream nozzles and demonstrate at least two (2) applications or uses for each.
- *7. Identify and explain the operation of all foam making appliances, and shall produce a foam stream from all types of foam making appliances used by the authority having jurisdiction or made available at the test site.
- *8. Identify in writing, three (3) observable results that are obtained when proper application of a fire stream is accomplished.
- *9. Identify, select and assemble those items required to develop at least three (3) types of fire streams.
- *No time limit, pass or fail grade should depend on candidates knowledge of the subject being tested and the methods and procedures to be demonstrated to the Examiner/Evaluator.

In accordance with IFSTA Manual #105

PASS	FAIL
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Signature of Examiner/Evaluator

Date

Comments;

(OVER)

Name of Candidate	Soc. Sec. No.	1 of 1
Department	VTAE District	County
Practical Skills Test Unit 10 Fire Streams	Certified Fire Fighter Level III	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 10 of the FSCS course, and with due regard to safety, the candidate shall demonstrate the ability to:

- *1. Construct a diagram to identify three (3) types of fog nozzles, their major parts and trace the water flow through them.
- *2. Upon being given a selection of nozzles and tips, identify:
 - a. type
 - b. design
 - c. operation
 - d. nozzle pressure
 - e. flow in GPM for proper operation of each

*no time limit, pass or fail grade should depend on candidates knowledge of subject being tested and methods and procedures demonstrated to the Examiner/Evaluator.

In accordance with IPSTA Manual #105.

PASS	FAIL
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Signature of Examiner/Evaluator

Date

Comments:

(OVER)

**WISCONSIN FIRE SERVICE TRAINING
PRACTICAL SKILLS TESTING**

CODE: FSCS-FF-79

UNIT 11 - SPRINKLERS

The following equipment and/or material to be furnished at test site.

- 1. Complete automatic sprinkler system**
- 2. Blueprints or drawings of systems**
- 3. Slides, transparencies**
- 4. Sprinkler heads, wrenches and tongs or wedges**
- 5. Additional personnel, equipment and tools necessary**

Name of Candidate	Soc. Sec. No.	1 of 1
Department	VTAE District	County
Practical Skills Test Unit 11 Sprinklers	Certified Fire Fighter Level II	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 11 of the PSCS course, and with due regard to safety, the candidate shall demonstrate the ability to:

- *1. Open and close the main drain on an automatic sprinkler system.
- *2. Operate main control valve on an automatic sprinkler system
- *3. When given the tools and sprinkler head, shall properly remove one head and replace it with a head of the same type

In accordance with IFSTA Manual #205

*No time limit, pass or fail grade should depend on candidates knowledge of the methods and procedures as demonstrated to the examiner/evaluator.

PASS	FAIL
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Signature of Examiner/Evaluator _____

Date _____

Comments: _____

(OVER)

Name of Candidate	Soc. Sec. No.	1 of 1
Department	VTAE District	County
Practical Skills Test Unit 11 Sprinklers	Certified Fire Fighter Level III	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 11 of the FSCS course, and with due regard to safety, the candidate shall demonstrate the ability to:

- *1. Demonstrate the operation of the alarm valve of an automatic sprinkler system
- *2. Identify correctly, twelve various sprinkler heads as to:
 - a. temperature rating
 - b. pendant or upright
 - c. special types
- *3. Identify the alarm test valve of an automatic sprinkler system
(Operate the valve in such a manner as to actually test the system if possible)
- *4. Demonstrate the direction of the flow of water through the check valve on the fire department connection of a automatic sprinkler system
- *5. Read and record the indicated pressures on all gauges provided on a standard WET automatic sprinkler system and name each gauge
- *6. Read and record the indicated pressures on all gauges provided on a standard DRY automatic sprinkler system and name each gauge
- *7. By visual inspection of an automatic sprinkler system in a building, shall identify and explain if obstructions to the sprinkler heads are present and what is the required clearance for the sprinkler head from obstructions

In accordance with IFSTA Manual #205

- * No time limit, pass or fail grade should depend on candidates knowledge of the methods and procedures as demonstrated to Examiner/Evaluator.

PASS	FAIL
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Signature of Examiner/Evaluator

Date

Comments:

(OVER)

UNIT 12 - FORCIBLE ENTRY

The following equipment and/or material to be furnished at the test site.

1. Any forcible entry tool needed
2. 3-story structure or equivalent
3. Additional personnel, equipment and tools needed.

Name of Candidate	Soc. Sec. No.	1 of 1
Department	VTAE District	County
Practical Skills Test Unit 12 Forcible Entry	Certified Fire Fighter Level I	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 12 of the PSCS course, and with due regard to safety, the candidate shall demonstrate the ability to:

- *1. Identify the use of each type of forcible entry tool including but not limited to:
 - a. Axes and Hatchets
 - b. Prying Tools
 - c. Pike Poles and Plaster Hooks
 - d. Battering Ram
 - e. Hand and Power Saws
 - f. Hammer Headed Pick (Wall Pick)
 - g. Metal Cutters
 - h. Bolt Cutters
 - i. Cutting Torch
 - j. Hydraulic Tools
 - k. Air Chisel
 - l. Jet-Axe
- *2. Respond to the apparatus or place of tool storage at the examination site. Remove the tool requested, and carry it in accordance with IFTSA Manul #101, to a point 30-feet from the apparatus or storage location within 30-seconds.
- *3. Demonstrate the method and procedure of properly cleaning, maintaining and inspecting each type of forcible entry tool and equipment furnished at the examination site.

In accordance with IFSTA Manual #101.

*No time limit, pass or fail grade should depend on candidates knowledge of the subject being tested and the methods and procedures to be demonstrated to the Examiner/Evaluator.

PASS	FAIL
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Signature of Examiner/Evaluator _____ Date _____

Comments: _____

(OVER)

Name of Candidate	Soc. Sec. No.	1 of 1
Department	VTAE District	County
Practical Skills Test Unit 12 Forcible Entry	Certified Fire Fighter Level II	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 12 of the FSCS course, and with due regard to safety, the candidate shall demonstrate the ability to;

- *1. Identify materials and construction features of doors, windows, roofs, floors, and vertical barriers and the dangers associated with each in an emergency situation.
- 2. Demonstrate using the appropriate tools, the following forcible entry procedures:
 - a. breaking a window including the clearing of obstructions within 30-seconds
 - b. Open at least two (2) types of windows within 1-minute
 - c. Open at least two (2) types of doors within 1-minute
 - d. Open a floor or roof using a pick head axe within 5-minutes
 - e. Open a floor or roof using a power saw withing 3-minutes

In accordance with IPSTA Manual #101

*No time limit, pass or fail grade should depend on the candidates knowledge of the subject being tested and the methods and procedures to be demonstrated to the Examiner/Evaluator.

PASS	FAIL
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Signature of Examiner/Evaluator

Date

Comments:

(OVER)

UNIT 13 - VENTILATION

The following equipment and/or material to be furnished at the test site.

1. A structure
2. A smoke-filled building, with not less than a 4-foot square, roof top opening.
3. Gasoline or electric powered smoke ejector.
4. Necessary additional personnel and equipment AND FULL PROTECTIVE CLOTHING.

Name of Candidate	Soc. Sec. No.	1 of 1
Department	VTAE District	County
Practical Skills Test Unit 13 Ventilation	Certified Fire Fighter Level I	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 13 of the FSCS course, and with due regard to safety, the candidate shall demonstrate the ability to:

1. In a smoke-filled room, open the windows, with or without fire department tools, to effect maximum horizontal ventilation within 1-minute.
2. Break glass in door or window, and safely remove obstructions within 1-minute.

In accordance with IFSTA Manual #107

PASS	FAIL
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Signature of Examiner/Evaluator

Date

Comments:

(OVER)

Name of Candidate	Soc. Sec. No.	1 of 1
Department	VTAE District	County
Practical Skills Test Unit 13 Ventilation	Certified Fire Fighter Level II	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 13 of the FSCS course, and with due regard to safety, the candidate shall demonstrate the ability to:

1. Indicate opening size and location required for a given fire problem involving vertical ventilation by going to the roof of the building and marking the outline of the decided opening on the roof within 3-minutes.

NOTE: If more than one person is to be examined or it is not possible to actually open the roof, provide the candidates with strips of material approximately 1 inch wide which may be torn in a variety of lengths and layed on the roof.

4. Simulate the removal of natural roof openings such as skylights, scuttle covers or other covers on roof tops within 3-minutes.

(Or actually accomplish this task within 3-minutes.)

5. Place equipment and ventilate a smoke-filled room within 3-minutes.
6. Ventilate a smoke-filled room with a water fog stream within 3-minutes.

Note: Time begins when the firefighters enter the room with the equipment or charged line.

In accordance with IFSTA Manual #107

PASS	FAIL
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Signature of Examiner/Evaluator

Date

Comments:

(OVER)

UNIT 14 - RESCUE

The following equipment and/or material to be furnished at the test site.

1. Fire department pumper and/or aerial ladder, tower, scope, etc., conforming to NFPA #1901.
2. Ambulance
3. Suitable structure
4. 125-feet of 3/4-inch or 5/8-inch rope or equivalent
5. Necessary additional personnel, equipment, tools and FULL PROTECTIVE CLOTHING.

Name of Candidate	Soc. Sec. No.	1 of 4
Department	VTAE District	County
Practical Skills Test Unit 14 Rescue	Certified Fire Fighter Level I	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 14 of the FSCS course, and with due regard to safety, the candidate shall demonstrate the ability to:

1. Perform the One-Person Assist

- a. with victim in prone position-bring to feet
 - b. walk a distance of 10-feet supporting and assisting the victim.
- within 1-minute-30 seconds.

2. Perform the Two-Person Assist

- a. with victim in prone position-bring to feet
 - b. walk a distance of 10-feet supporting and assisting the victim.
- within 1-minute-30seconds.

3. Perform the Ladder Assist

- a. remove the ladder from the apparatus located 30-feet from the structure
 - b. carry, raise and climb the ladder to the 2nd floor window
 - c. assist ambulatory victim down ladder to the ground
- within 4-minutes

In accordance with IFSTA Manual #108

PASS	FAIL
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Signature of Examiner/Evaluator _____

Date _____

Comments: _____

(OVER)

Name of Candidate	Soc. Sec. No.	2 of 4
Department	VTAE District	County
Practical Skills Test Unit 14 Rescue	Certified Fire Fighter Level I	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 14 of the FSCS course, and with due regard to safety, the candidate shall demonstrate the ability to:

4. Transport a victim a minimum of 10-feet to a place of safety using the "Pack Strap Crawl and Carry" one-person method
within 2-minutes
5. Transport a victim a minimum of 10-feet to a place of safety using the "Seat Carry" two-person method
within 1-minute-30 seconds
6. Transport a victim a minimum of 10-feet to a place of safety using the "Arm Cradle" one-person method
within 2-minutes
7. Transport the victim a minimum of 5-feet to a place of safety using the "Firemen's Drag" one-person method
within 2-minutes
8. Transport a victim a minimum of 25-feet to a place of safety using the "Blanket Drag" one-person method
within 1-minute-30 seconds
9. Transport a victim a minimum of 10-feet to a place of safety using the "Astride the Back Carry" one-person method
within 2 minutes

In accordance with IFSTA Manual #108

PASS	FAIL
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Signature of the Examiner/Evaluator _____ Date _____

Comments: _____

(OVER)

Name of Candidate	Soc. Sec. No.	3 of 4
Department	VTAE District	County
Practical Skills Test Unit 14 Rescue	Certified Fire Fighter Level I	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 14 of the FSCS course, and with due regard to safety, the candidate shall demonstrate the ability to:

10. Transport a victim a minimum of 10-feet to a place of safety using the "Extremities Carry" two-person method
within 1-minute-30 seconds
11. Transport a victim a minimum of 10-feet to a place of safety using the "Chair Carry" two-person method
within 1-minute-30 seconds
12. With the victim lying on the ground, lift and place the victim on the stretcher, using the "Three-Person Carry" method
within 2-minutes
13. Lift and carry a stretcher with victim a minimum of 10-feet to a place of safety using the following carries:
 - a. two-person carry
 - b. four person carry
 within 2-minutes
14. Lift and carry a stretcher with a victim a minimum of 10-feet to a place of safety over a 4-foot high obstruction and into an ambulance
within 5-minutes using the four-person carry
15. Carry a stretcher with a victim up and down a flight of at least six stairs
within 5-minutes using the four-person carry

In accordance with IFSTA Manual #108

PASS	FAIL
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Signature of Examiner/Evaluator

Date

Contents:

(OVER)

Name of Candidate	Soc. Sec. No.	4 of 4
Department	VTAE District	County
Practical Skills Test Unit 14 Rescue	Certified Fire Fighter Level I	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 14 of the FSCS course, and with due regard to safety, the candidate shall demonstrate the ability to:

- *16. Demonstrate the procedure for searching for victims in burning, smoke-filled buildings or other hostile environments.
 - *17. Demonstrate and explain the uses of the life belt (where applicable)
 - *18. Where applicable and if local policy, with the apparatus located 30-feet from the structure, remove the life net, carry, open, and position the net at the structure and catch a "victim" jumping from the 2nd floor.
- *No time limit, pass or fail grade should depend on the candidates knowledge of the methods and procedures as demonstrated to the Examiner/Evaluator.

In accordance with IFSTA Manual #108.

PASS	FAIL
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Signature of Examiner/Evaluator

Date

Comments: _____

(OVER)

Name of Candidate	Soc. Sec. No.	1 of 1
Department	VTAE District	County
Practical Skills Test Unit 14 Rescue	Certified Fire Fighter Level II	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 14 of the FSCS course, and with due regard to safety, the candidate shall demonstrate the ability to:

- *1. Identify the procedures to remove debris, rubble and other material found at a cave-in.
 - *2. Where applicable and if local policy, demonstrate the use of the following rescue tools:
 - a. shoring blocks
 - b. trench jacks
 - c. block and tackle
 - d. hydraulic jacks
 - e. screw jacks
 - *3. Demonstrate improvising a stretcher using any of the following or other materials:
 - a. pike poles
 - b. blankets
 - c. salvage covers
 - *4. Identify in writing some of the dangers of search and rescue missions in tunnels, caves, construction sites and other hazardous areas.
 - *5. Demonstrate the extrication of a victim from a vehicle accident.
 - *6. Tie a Bowline-on-a-Bight rescue knot or Double Bowline rescue knot on a victim and hoist or lower a minimum of 10-feet.
 - *7. Where applicable and if local policy, demonstrate the use of breathing aid equipment available at the examination site, and explain the precautions in the care and maintenance of the various units.
- *No time limit, pass or fail grade should depend on candidates knowledge of the subject, methods and procedures as demonstrated to the Examiner/Evaluator.

In accordance with IFSTA Manual #108

PASS	FAIL
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Signature of Examiner/Evaluator

Date

(OVER)

Name of Candidate	Soc. Sec. No.	1 of 1
Department	VTAE District	County
Practical Skills Test Unit 14 Rescue	Certified Fire Fighter Level III	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 14 of the FSCS course, and with due regard to safety, the candidate shall demonstrate the ability to:

- *1. Demonstrate assuming command as the company officer at a simulated or practice rescue incident including directing 3 or more persons in the accomplishment of all normal rescue functions including the removal of persons, search procedures, the use of required rescue tools, life belt and life net uses and the removal of debris (where applicable.)

PASS	FAIL
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Signature of Examiner/Evaluator

Date

Comments:

(OVER)

UNIT 15 - SALVAGE & OVERHAUL

The following equipment and/or material to be furnished at the test site.

1. At least three (3) salvage covers of various sizes.
2. An 18-, 20-, or 24-foot traight frame ladder.
3. Use of a stairwell (2-story or more)
4. Additional necessary personnel and equipment.

Name of Candidate	Soc. Sec. No.	1 of 1
Department	VTAE District	County
Practical Skills Test Unit 15 Salvage and Overhaul	Certified Fire Fighter Level I	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 15 of the FSCS course, and with due regard to safety, the candidate shall demonstrate the ability to:

1. Using two persons demonstrate the construction of the following rolls and folds of salvage covers within 2-minutes and in accordance with IFSTA Manual #104.
 - a. One person salvage cover roll
 - b. One person salvage cover fold
 - c. Accordion salvage cover fold
 - d. Two person salvage cover fold

2. Using the necessary personnel demonstrate the following salvage cover throws within 45-seconds and in accordance with IFSTA Manual #104.
 - a. Balloon Throw
 - b. Single-Edge Snap Throw
 - c. Crossover Throw

- *3. Demonstrate the methods of inspecting, cleaning and maintaining salvage equipment.

* No time limit

PASS	FAIL

Signature of Examiner/Evaluator

Date

Comments:

(OVER)

Name of Candidate	Soc. Sec. No.	1 of 1
Department	VTAE District	County
Practical Skills Test Unit 15 Salvage and Overhaul	Certified Fire Fighter Level II	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 15 of the FSCS course, and with due regard to safety, the candidate shall demonstrate the ability to:

1. Use the proper procedures for shutting off gas and electrical services to specific buildings. (Time variable dependent upon distances and degree of difficulty.)
2. Demonstrate the construction of a water chute from a window, using 18, 20, or 24 foot straight ladder within 2-minutes and in accordance with IFSTA Manual #104.
3. Demonstrate the construction of a catch-all within 3-minutes in accordance with IFSTA Manual #104.
4. Demonstrate the removal of debris from a building using the bag-all procedure within 1-minute and in accordance with IFSTA Manual #104.
5. Demonstrate removal of toilet from floor to gain access to sewer line for water removal within 3-minutes.
- *6. Demonstrate the covering or closing of openings made during firefighting operations, in accordance with IFSTA Manual #104.

*no time limit
- *7. Demonstrate the basic steps in conducting overhaul of a building involved in firefighting operations, in accordance with IFSTA Manual #104.

PASS	FAIL

Signature of Examiner/Evaluator

Date

Comments;

(OVER)

Name of Candidate	Soc. Sec. No.	1 of 1
Department	VTAE District	County
Practical Skills Test Unit 15 Salvage and Overhaul	Certified Fire Fighter Level III	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 15 of the FSCS course, and with due regard to safety, the candidate shall demonstrate the ability to:

- *1. Demonstrate methods and procedures used to detect and extinguish hidden fires in accordance with IFSTA Manual #104.

*time is not a factor, pass or fail grade should depend on candidates knowledge of the methods and procedures as demonstrated to the examiner/evaluator.

PASS	FAIL
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Signature of Examiner/Evaluator _____

Date: _____

Comments: _____

(OVER)

UNIT 16 - FIRE DEPARTMENT COMMUNICATIONS

The following equipment and/or material to be furnished at the test site.

1. An actual or simulated fire department communications center which may include:
 - a. Business and fire reporting telephones
 - b. Radio receiving and transmitting equipment
 - c. Telegraph and other alarm receiving or transmitting equipment
2. A specific fire communications situation or problem as outlined by the instructor which involves the use of the communications systems listed.

Name of Candidate	Soc. Sec. No.	1 of 1
Department	VTAE District	County
Practical Skills Test Unit 16 Fire Alarm Communications	Certified Fire Fighter Level I	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 16 of the FSCS course, and with due regard to safety, the candidate shall demonstrate the ability to:

- *1. Identify the correct procedure for a citizen to report a fire, or other emergencies.
- *2. Demonstrate correctly receiving an alarm or report of an emergency, and initiate proper action.
- *3. Identify the purpose and function of all alarm receiving instruments, and personnel alerting equipment provided in the fire station.
- *4. Identify station watch duties (where applicable.)
- *5. Identify the use of traffic control devices installed in the fire station to facilitate the response of apparatus (where applicable.)
- *6. Identify procedures required for receipt and processing of business and personal calls.
- *7. Identify policy and procedures concerning the ordering and transmitting of multiple alarms of fire and calls for special assistance.
- *8. Identify and explain all fire alarm signals, including multiple alarm and special signals, governing the movements of fire apparatus; and the action to be taken upon the receipt of each signal (where applicable.)

In accordance with IFSTA Manual #206 and/or the procedures of the authority having jurisdiction. *No time limit, pass or fail grade should depend on candidates knowledge of the methods and procedures as demonstrated to the Examiner/Evaluator.

PASS	FAIL
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Signature of Examiner/Evaluator

Date

Comments:

(OVER)

Name of Candidate	Soc. Sec. No.	1 of 1
Department	VTAE District	County
Practical Skills Test Unit 16 Fire Alarm Communications	Certified Fire Fighter Level II	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 16 of the PSCS course, and with due regard to safety, the candidate shall demonstrate the ability to:

- *1. Identify and demonstrate a knowledge of areas assigned for first alarm response.
- *2. Simulate the rendering an arrival and situation report over apparatus radio.
- *3. Identify any supervisory alarm equipment provided in the fire station and the prescribed action to be taken upon receipt of designated signals.
- *4. Identify fire location indicators provided to direct to specific locations in protected public or private properties (when applicable)

*No time limit, pass or fail grade should depend on the candidates knowledge of the methods and procedures as demonstrated to the Examiner/Evaluator.

PASS	FAIL
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Signature of Examiner/Evaluator _____ Date _____

Comments: _____

(OVER)

Name of Candidate	Soc. Sec. No.	1 of 1
Department	VTAE District	County
Practical Skills Test Unit 16 Fire Alarm Communications	Certified Fire Fighter Level III	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 16 of the FSCS course, and with due regard to safety, the candidate shall demonstrate the ability to:

- *1. Rewind, Reset or both, any fire alarm boxes or devices on the public fire alarm system where applicable.
- *2. Demonstrate the ordering of multiple alarms and other calls for assistance from the fire ground when authorized to do so.
- *3. Identify the types of supervisory alarm systems in their response areas.

* No time limit, pass or fail grade should depend on candidates knowledge of the subject being tested and the methods and procedures demonstrated to the Examiner/Evaluator.

PASS	FAIL
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Signature of Examiner/Evaluator _____

Date _____

Comments: _____

WISCONSIN FIRE SERVICE TRAINING
PRACTICAL SKILLS TESTING

CODE: FSCS-FF-79

UNIT 17 - FIRE INSPECTION

The following equipment and/or material to be furnished at the test site.

1. Necessary forms, graphs and writing material.

Name of Candidate	Soc. Sec. No.	1 of 1
Department	VTAE District	County
Practical Skills Test Unit 17 Fire Inspection	Certified Fire Fighter Level I	

BEHAVIORAL OBJECTIVES : Upon completion of Unit 17 of the FSCS course, and with due regard to safety, the candidate shall demonstrate the ability to:

- *1. Identify in writing knowledge of the common causes of fires and their prevention.
 - *2. Identify in writing the fire prevention inspection procedures in accordance with IFSTA Manual #110 and local policy.
 - *3. Identify in writing, the importance of public relations relative to the inspection programs of the fire department.
 - *4. Where applicable and if local policy, identify in writing, the dwelling inspection procedures of the fire department.
- *No time limit, pass or fail grade should depend on the candidates knowledge of the subject being tested and the methods and procedures being demonstrated to the Examiner.Evaluator.

In accordance with IFSTA Manual #110 and local policy.

PASS	FAIL
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Signature of Examiner/Evaluator

Date

Comments:

(OVER)

Name of Candidate	Soc. Sec. No.	1 of 1
Department	VTAE District	County
Practical Skills Test Unit 17 Fire Inspection	Certified Fire Fighter Level II	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 17 of the PSCS course, and with due regard to safety, the candidate shall demonstrate the ability to:

- *1. Identify and prepare diagrams or sketches to record the locations of items of concern during a pre-fire planning operation.
- *2. Identify and prepare in writing the information needed to complete a report on building inspection or survey on the inspection form furnished.
- *3. Demonstrate the school exit drill procedures as specified by Fire Prevention Section, Department of Industry, Labor and Human Relations, Department of Public Education or local policy.
- *4. Identify in writing, life safety programs for the home. Specifically the "EDITH" program Exit Drills in the Home.
- *5. Identify in writing, common fire hazards and make recommendations for their correction.

*No time limit, pass or fail grade should depend on the candidates knowledge of the subject being tested and the methods and procedures to be demonstrated to the Examiner/Evaluator.

In accordance with IFSTA Manual #110 and local policy.

PASS	FAIL
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Signature of Examiner/Evaluator _____

Comments: _____

(OVER)

Name of Candidate	Soc. Sec. No.	1 of 3
Department	VTAE District	County
Practical Skills Test Unit 17 Fire Inspection	Certified Fire Fighter Level III	

BEHAVIORAL OBJECTIVES: Upon completion of Unit 17 of the FSCS course, and with due regard to safety, the candidate shall demonstrate the ability to:

- *1. Demonstrate in writing the completion of an inspection report on the form provided.
- *2. Identify in writing the action to be taken under local policy, whenever fire hazards or suspected fire hazards, are encountered during inspections.
- *3. Identify in writing, and according to local policy, the procedure for conducting pre-fire planning operations, including the information to be obtained during fire company inspections.
- *4. Identify the fire exit requirements for the various types of occupancies contained in the Wisconsin Administrative Code.
- *5. Where applicable and if local policy, identify in writing the duties and responsibilities of fire company inspectors assigned to a fire prevention detail in places of public assembly.
- *6. Identify in writing the use and operation of various roof vents, both manual and automatic.
- *7. Identify and explain in writing the proper inspection of a standpipe system for fire protection including inspection of hose, nozzles, hose outlet threads and fire department connections (where applicable.)
- *8. Identify by diagram or sketch, a private water system for fire protection, including fire pumps, yard hydrants, hose houses, gravity and pressure types of water storage tanks, reservoirs and draft sources.
- *9. Identify types of smoke, flame and heat detection alarm systems.
- *10. Identify local and state fire codes concerning subjects to be noted in fire company inspections.
- *11. Identify in writing the areas of responsibility of other municipal and state inspection agencies, other than the fire department, that exist in the city, county and state.

Name of Candidate	Soc. Sec. No.	2 of 3
Department	VTAE District	County
Practical Skills Test Unit 17 Fire Inspection	Certified Fire Fighter Level III	

BEHAVIORAL OBJECTIVES: Upon sompletion of UNIT 17 of the FSCS course, and with due regard to safety, the candidate shall demonstrate the ability to:

- *12. Identify in writing, the fire hazards commonly found in manufacturing, commercial, residential, and public assembly occupancies.
- *13. Identify in writing, common deficiencies in electrical services and electrical appliances.
- *14. Identify in writing, standard types of chimneys and flues including deficiencies likely to cause fires.
- *15. Identify in writing, the methods of fire spread through air conditioning and utility ducts and explain the functions of automatic and manual controls of these systems.
- *16. Identify and explain in writing, the Wisconsin Administrative Code requirements covering the proper storage and use of flammable liquids and gases.
- *17. Identify and explain in writing, storage codes and practices contributing to fire safety in buildings, including:
 - a. proper piling
 - b. aisles
 - c. clearances
 - d. access to fire equipment and exits
- *18. Identify and explain in writing, reccomended procedures for outdoor storage including:
 - a. aisles
 - b. roadways
 - c. access to hydrants and buildings
 - d. exposure hazards
 - e. dangers for fire-fighting personnel
- *19. Identify in writing, water and smoke damage potential to goods, office and manufacturing machinery and other valuable objects.

